Installation Manual
TWM Performance
Short Shift Kit
2003 and up Echo / Echo Hatchback
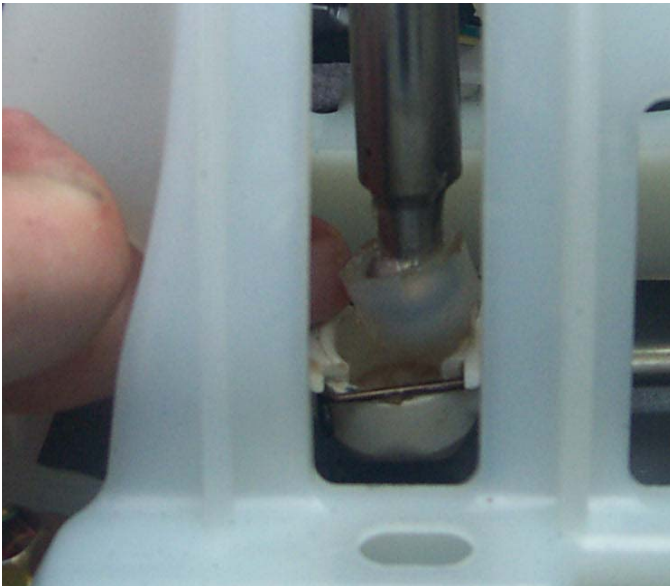# Scion xA/xB
Toyota Yaris and Vitz

1. Unscrew the shift knob and remove the boot.

2. Remove the two screws from the back of the console. Then carefully lift and remove the console from the car to allow access to the shift assembly.
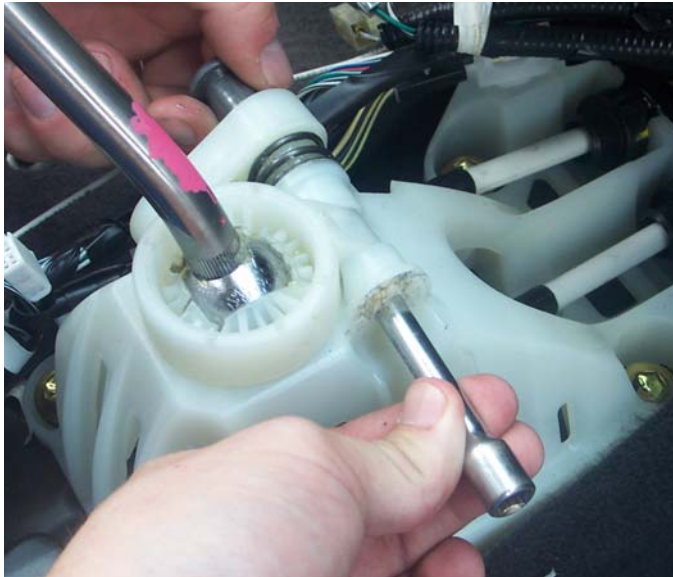
3. Remove the clip on the left side of the assembly.

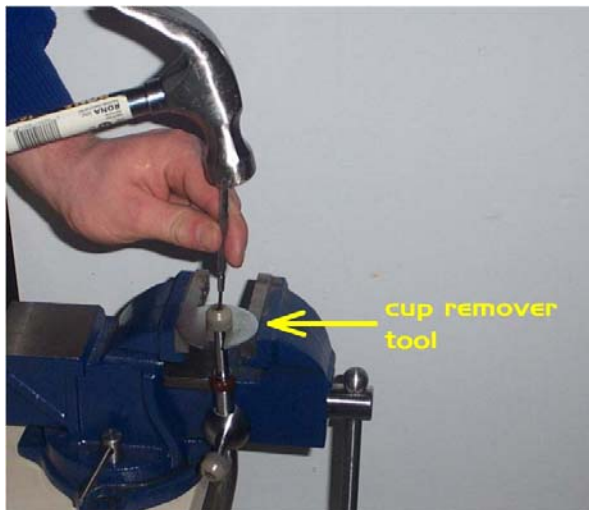4. Remove the bottom clip holding the shifter to the linkage.

5. Insert a flat head screw driver behind the clip on the right front side of the assembly and pry the clip off. The clip may be broken in the process but a new one is included with the TWM shifter.
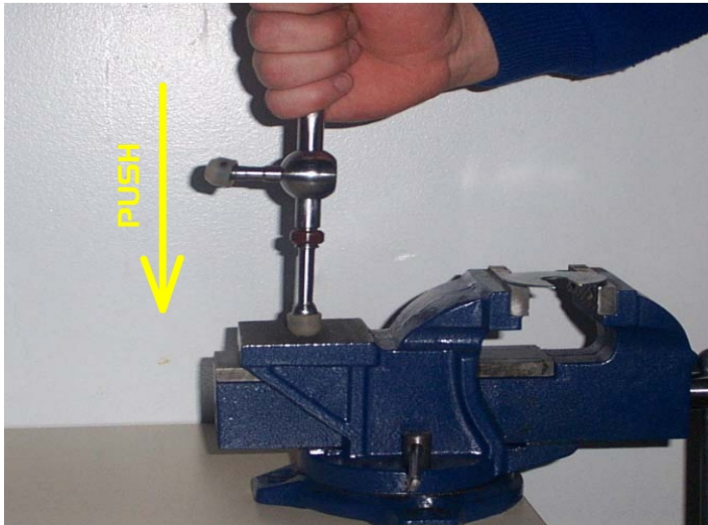
6. Use a punch to drive out the pin and remove the plastic side arm. Note the position of the spring before removal of the arm.

7. Use a flat head screw driver to pry off the plastic cap on top of the assembly. Remove the stock shifter.

8. Use the cup remover tool included with the kit to remove both plastic cups on the original shifter. To do so, place the cup remover tool on top of the open jaws of a vice, the jaws should be approximately 1" apart. Hang the shifter from the tool as shown, be sure the shifter is inserted completely into the slot in the tool. Insert a punch into the center hole through the plastic cup and tap firmly with a hammer to separate the original shifter from cup. Repeat for second cup.

cup remover tool

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9.Install the plastic cups which you removed from the original shifter onto the TWM shifter. Grease the cups and pivot balls generously. Place the cup on a firm surface and push the TWM shifter into it until it pops in. Also grease the large pivot ball before slipping it back into the big white cup.
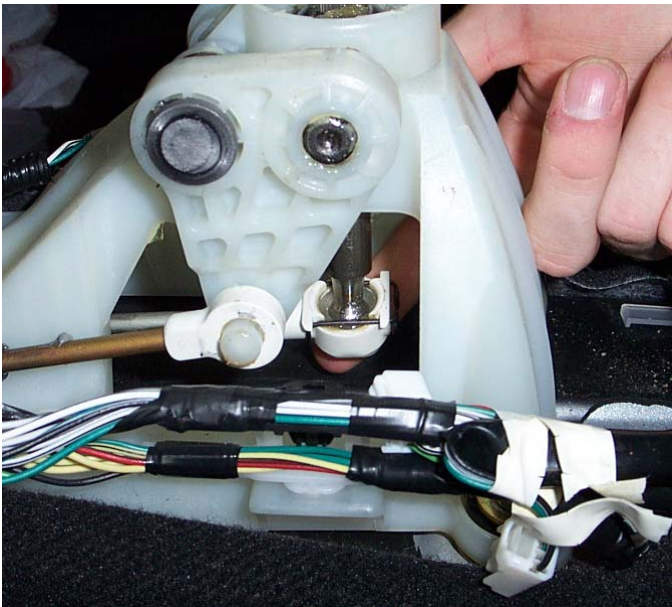

10. Lightly grease the large pivot ball and the small side pivot ball on the TWM shifter. Install the TWM shifter in place of the stock one and replace the plastic cap by pressing it on firmly until it snaps into place.

11. Re-install the plastic side arm on to the assembly. This may require a hammer to tap the pin through the assembly. Take special care to properly re-install the spring to its original location.

12. Drive the clip on with a 14mm socket to secure it properly against the plastic assembly. Be sure the shaft is pushed all the way into the assembly and the clip is on all the way so there is no free play.

13. Replace the clip on the bottom of the shifter to re-secure it to the shift linkage. Re-install the shift linkage and clip to the arm on the left side of the assembly. Re-install the console and re-connect all plastic connectors. Replace shift knob and you're ready to drive!

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TO PROTECT USERS FROM INJURY OR DEATH. THE USER ASSUMES ALL RISKS. Autocrossing, track events, and high speed driving are all dangerous activities - always drive responsibly and safely.

Warranty

Installation of some TWM Performance products may or may not void factory warranties. Always keep OEM equipment that has been replaced in case work is required at the dealer or the vehicle is sold.

This warranty covers the **original purchasing consumer**. This warranty is limited to repair or replacement by TWM Performance of any TWM Performance product that fails because of a defect in materials or workmanship.

Warranty does not cover the following:

-Damage incurred to related vehicle components
-Regular day to day wear on vehicle
-Shipping costs for replacements
-Installation costs and vehicle down time
-Products that have been modified, incorrectly installed or misused.
-Mounting hardware and bearings